



Spring 2008

Planning for Traffic Safety and Injury Control

Civil Engineering C265

(Cross Listed)

Public Health C285

3 Units

MW 8-9:30AM 544 Davis

Injuries from traffic crashes are a major cause of death and disability in the United States. For people aged 1-34, injuries from traffic crashes are the LEADING cause. The course will examine principles of engineering and behavioral science relevant to preventing traffic collisions and subsequent injury. It will explore the interactions of human behavior, vehicle design, and roadway design and use that knowledge to suggest approaches to preventing traffic crashes and injury. Vulnerable road users (primarily pedestrians and bicyclists) and ways to keep them safe will be covered extensively. Specific skills developed in the class are:

- (i) **the ability to conduct analysis of traffic collision and injury data;**
- (ii) **the ability to conduct analysis of collision risk in a road network (network screening);**
- (iii) **the ability to identify causal factors;**
- (iv) **the ability to identify and evaluate countermeasures.**

A class paper will involve evaluation of traffic collisions along a specific roadway or corridor (or project of equivalent effort).

The class is open to students of all academic backgrounds.

INSTRUCTORS:

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